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      =>  d history

           (FILE 'HOME' ENTERED AT 16:07:57 ON 29 APR 2004)

           FILE 'REGISTRY' ENTERED AT 16:08:12 ON 29 APR 2004
L1              2 S NHVCSRLG/SQSP
L2              2 S IEETARKG/SQSP
L3              2 S NNATVEDE/SQSP
L4              2 S HSWKPDKL/SQSP
L5              2 S ETGERIVL/SQSP
L6              1 S CIEETARKGC/SQSP
L7              1 S CIEETAAKGC/SQSP
L8              1 S CEFQQWSGKC/SQSP
L9              1 S CNHVCSRLGC/SQSP
L10             1 S CNELHMKQHC/SQSP
L11             1 S CNNATFEDGC/SQSP
L12             1 S CNNATVEDEC/SQSP
L13             1 S CDEKRGPNEC/SQSP
L14             2 S NELHMKQH/SQSP
L15             2 S DEKRGPNEC/SQSP
L16             1 S CHSWKPDKLC/SQSP
L17             1 S CETGERIVLC/SQSP
L18             2 S NETTVREY/SQSP
L19             1 S CNETTVREYC/SQSP
L20             2 S NNATFEDG/SQSP
L21             2 S VSEDIYDA/SQSP
L22             1 S CVSEDIYDAC/SQSP
L23       1177187 S L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR 10 OR L11 OR L12 OR
L24            20 S L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 O

           FILE 'CAPLUS' ENTERED AT 16:14:51 ON 29 APR 2004
L25             1 S L24


           FILE 'REGISTRY' ENTERED AT 16:19:35 ON 29 APR 2004
L26             1 S CCGREGEDWC/SQSP
L27             2 S CGREGEDW/SQSP
L28             1 S CKRGIHPESC/SQSP
L29             2 S KRGIHPES/SQSP
L30             0 S QPTEYVMK/SQSP
L31             1 S CQPTQYVMKC/SQSP
L32             2 S QPTQYVMK/SQSP
L33             6 S L26 OR L27 OR L28 OR L29 OR L31 OR L32

           FILE 'CAPLUS' ENTERED AT 16:22:04 ON 29 APR 2004
L34             1 S L33

           FILE 'DGENE' ENTERED AT 16:22:30 ON 29 APR 2004
                    RUN GETSEQ
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L35    RUN STATEMENT CREATED
                    RUN GETSEQ
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L36    RUN STATEMENT CREATED
                    RUN GETSEQ
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L37    RUN STATEMENT CREATED
                    RUN GETSEQ
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L38    RUN STATEMENT CREATED
                    RUN GETSEQ
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L39   RUN STATEMENT CREATED
                RUN GETSEQ
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L40   RUN STATEMENT CREATED
                RUN GETSEQ
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L41   RUN STATEMENT CREATED
                RUN GETSEQ
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L42   RUN STATEMENT CREATED
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L43   RUN STATEMENT CREATED
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L44   RUN STATEMENT CREATED
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L45   RUN STATEMENT CREATED
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L46   RUN STATEMENT CREATED
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L47   RUN STATEMENT CREATED
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L48   RUN STATEMENT CREATED
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L49   RUN STATEMENT CREATED
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L50   RUN STATEMENT CREATED
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L51   RUN STATEMENT CREATED
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L52   RUN STATEMENT CREATED
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L53   RUN STATEMENT CREATED
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L54   RUN STATEMENT CREATED
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L55   RUN STATEMENT CREATED
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L56   RUN STATEMENT CREATED
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L57   RUN STATEMENT CREATED
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L58   RUN STATEMENT CREATED
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L59   RUN STATEMENT CREATED
                RUN GETSEQ
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L60    RUN STATEMENT CREATED
                 RUN GETSEQ
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L61    RUN STATEMENT CREATED
                 RUN GETSEQ
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L62    RUN STATEMENT CREATED
                 RUN GETSEQ
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L63    RUN STATEMENT CREATED


       FILE 'REGISTRY' ENTERED AT 16:41:11 ON 29 APR 2004
L64           1 S CQPTQYVMKC/SQSFP
L65        2001 S QPTQYVMK/SQSFP
L66          23 S L65 AND SQL<30
L67          13 S L65 AND SQL<20
L68           5 S L65 AND SQL<15


       FILE 'CAPLUS' ENTERED AT 16:43:00 ON 29 APR 2004
L69           3 S L68


       FILE 'REGISTRY' ENTERED AT 16:51:06 ON 29 APR 2004
L70           1 S L65 AND (187593-07-3)/RN
L71           1 S L65 AND (119401-84-2)/RN


       FILE 'CAPLUS' ENTERED AT 16:54:51 ON 29 APR 2004
L72       30945 S (POLYPEPTIDE# OR PEPTIDE# OR OLIGOPEPTIDE# OR OLIGOMER# OR FR
L73         423 S L72(3A)(TUMOR? OR TUMOUR? OR CANCER? OR NEOPLAS? OR MALIGNAN?
L74           2 S L73 AND L65
L75      206258 S (PROTEIN#)(3A)BIND?
L76        3108 S L75(3A)(TUMOR? OR TUMOUR? OR CANCER? OR NEOPLAS? OR MALIGNAN?
L77           0 S L65 AND L76


       FILE 'REGISTRY' ENTERED AT 17:01:41 ON 29 APR 2004
L78        3101 S  KRGIHPES/SQSFP
L79           1 S CKRGIHPESC/SQSP
L80          31 S CKRGIHPESC/SQSFP
L81          81 S CGREGEDW/SQSFP
L82           1 S CCGREGEDWC/SQSFP
L83           1 S CVSEDIYDAC/SQSFP
L84        4928 S VSEDIYDA/SQSFP
L85        3038 S NNATFEDG/SQSFP
L86           1 S CNETTVREYC/SQSFP
L87        1455 S NETTVREY/SQSFP
L88           1 S CETGERIVLC/SQSFP
L89           1 S CHSWKPDKLC/SQSFP
L90          56 S DEKRGPNEC/SQSFP
L91        1171 S NELHMKQH/SQSFP
L92           1 S CDEKRGPNEC/SQSFP
L93           6 S CNNATVEDEC/SQSFP
L94           1 S CNNATFEDGC/SQSFP
L95           1 S CNELHMKQHC/SQSFP
L96           1 S CNHVCSRLGC/SQSFP
L97           1 S CEFQQWSGKC/SQSFP
L98           1 S CIEETAAKGC/SQSFP
L99           1 S CIEETARKGC/SQSFP
L100       5745 S ETGERIVL/SQSFP
L101        633 S HSWKPDKL/SQSFP
L102       5612 S NNATVEDE/SQSFP
L103       4237 S IEETARKG/SQSFP
L104        444 S NHVCSRLG/SQSFP
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L105          741 S EFQQWSGK/SQSFP
L106         2001 S QPTQYVMK/SQSFP
L107            1 S CQPTQYVMKC/SQSFP
L108            2 S L29 AND SQL<15
L109            6 S L78 AND SQL<15
L110            1 S L80 AND SQL<15
L111            2 S L81 AND SQL<15
L112            2 S L84 AND SQL<15
L113            2 S L85 AND SQL<15
L114            2 S L87 AND SQL<15
L115            2 S L90 AND SQL<15
L116            2 S L91 AND SQL<15
L117            1 S L93 AND SQL<15
L118            4 S L100 AND SQL<15
L119            3 S L101 AND SQL<15
L120            5 S L102 AND SQL<15
L121            8 S L103 AND SQL<15
L122            3 S L104 AND SQL<15
L123            2 S L105 AND SQL<15
L124            5 S L106 AND SQL<15

      FILE 'CAPLUS' ENTERED AT 17:29:31 ON 29 APR 2004
L125            5 S L109
L126            1 S L111
L127            1 S L112
L128            1 S L113
L129            1 S L114
L130            1 S L115
L131            1 S L116
L132            3 S L118
L133            2 S L119
L134            4 S L120
L135            6 S L121
L136            2 S L122
L137            1 S L123

      FILE 'REGISTRY' ENTERED AT 17:50:05 ON 29 APR 2004
L138            1 S L80 AND SQL<30
L139            1 S L80 AND SQL<100
L140           11 S L81 AND SQL<100
L141          243 S L84 AND SQL<100
L142          721 S L84 AND SQL<150
L143           17 S L84 AND SQL<50
L144            7 S L85 AND SQL<50
L145            4 S L87 AND SQL<50
L146            2 S L90 AND SQL<50
L147            2 S L90 AND SQL<100
L148           24 S L91 AND SQL<100
L149            1 S L93 AND SQL<100
L150          170 S L100 AND SQL<100
L151           38 S L100 AND SQL<50
L152           23 S L105 AND SQL<100

      FILE 'CAPLUS' ENTERED AT 17:57:57 ON 29 APR 2004
L153            5 S L140
L154           16 S L143
L155            8 S L144
L156            3 S L145
L157           18 S L148
L158           36 S L151
L159           25 S L158 AND PY<2002
L160           13 S L152
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        FILE 'REGISTRY' ENTERED AT 18:15:25 ON 29 APR 2004
L161           57 S L87 AND SQL<100

        FILE 'CAPLUS' ENTERED AT 18:15:49 ON 29 APR 2004
L162           29 S L161
L163           10 S L162 AND PY<2002
L164        11281 S (PROTEIN# OR PEPTIDE# OR POLYPEPTIDE# OR OLIGOMER# OR OLIGOPE
L165        87492 S LEUKEMI## OR LEUKAEMI##
L166          191 S L164 AND L165
L167         1073 S L78
L168            3 S L167 AND L166
L169           63 S L167 AND L164
L170           22 S L169 AND PY<2002
L171         5302 S L164/TI,AB
L172        74892 S L165/TI,AB
L173           10 S L167 AND 172
L174        74892 S L165/TI,AB
L175            7 S L174 AND L167
L176         1687 S L164/TI
L177           17 S L176 AND L165
L178            0 S L177 AND L167
L179           22 S L80
L180            0 S L179 AND L177
L181           50 S L81
L182            0 S L181 AND L177
L183         1367 S L84
L184            0 S L183 AND L177
L185         1149 S L85
L186            0 S L185 AND L177
L187          627 S L87
L188            0 S L187 AND L177
L189           15 S L90
L190            0 S L189 AND L177
L191          513 S L91
L192            0 S L191 AND L177
L193            3 S L93
L194            0 S L193 AND L177
L195         1594 S L100
L196            0 S L195 AND L177
L197          282 S L101
L198            0 S L197 AND L177
L199         1772 S L102
L200            0 S L199 AND L177
L201         1521 S L103
L202            0 S L201 AND L177
L203          224 S L104
L204            0 S L203 AND L177
L205          312 S L105
L206            0 S L205 AND L177
L207          790 S L106
L208            0 S L207 AND L177
L209         1073 S L78
L210            0 S L209 AND L177
L211            2 S L179 AND L165
L212            3 S L181 AND L165
L213            9 S L183 AND L165
L214           17 S L185 AND L165
L215            7 S L214 AND PY<2002
L216            5 S L187 AND L165
L217            1 S L189 AND L165
L218            7 S L191 AND L165
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L219           1 S L193 AND L165
L220          13 S L195 AND L165
L221           1 S L197 AND L165
L222          24 S L199 AND L165
L223          14 S L222 AND PY<2002
L224          41 S L201 AND L165
L225          26 S L224 AND PY<2002
L226           2 S L203 AND L165
L227           2 S L205 AND L165
L228           9 S L207 AND L165
L229          14 S L209 AND L165
L230           8 S L229 AND PY<2002
L231          11 S L179 AND PY<2002
L232           8 S L189 AND PY<2002
L233           2 S L93 AND PY<2002
L234           0 S L97 AND PY<2002
L235           0 S L97 AND PY<2003
L236         112 S L197 AND PY<2002

     FILE 'REGISTRY' ENTERED AT 19:36:07 ON 29 APR 2004

     FILE 'CAPLUS' ENTERED AT 19:47:10 ON 29 APR 2004

     FILE 'REGISTRY' ENTERED AT 19:47:11 ON 29 APR 2004

     FILE 'CAPLUS' ENTERED AT 19:47:58 ON 29 APR 2004

     FILE 'REGISTRY' ENTERED AT 19:48:01 ON 29 APR 2004

     FILE 'CAPLUS' ENTERED AT 19:48:49 ON 29 APR 2004
L237           8 S L232

     FILE 'REGISTRY' ENTERED AT 19:52:08 ON 29 APR 2004
L238           1 S L105 AND (350498-06-5)/RN
L239           1 S L105 AND (350498-06-5)/RN
L240           1 S L105 AND (350498-08-7)/RN
L241           1 S L105 AND (350498-11-2)/RN
L242           1 S L105 AND (275794-38-2)/RN
L243           1 S L105 AND (351483-16-4)/RN
L244           1 S L104 AND (368892-38-0)/RN
L245           0 S L104 AND (368815-55-6)/RN
L246           0 S L104 AND (3668815-55-6)/RN
L247           1 S L104 AND (366815-55-6)/RN
L248           1 S L103 AND (359680-46-9)/RN
L249           1 S L103 AND (372074-09-4)/RN
L250           1 S L103 AND (373639-49-7)/RN
L251           1 S L103 AND (273923-61-8)/RN
L252           1 S L103 AND (360804-23-5)/RN
L253           1 S L103 AND (352595-73-4)/RN
L254           1 S L103 AND (357361-72-9)/RN
L255           1 S L103 AND (183511-48-0)/RN
L256           1 S L103 AND (311352-33-7)/RN
L257           1 S L103 AND (311352-39-3)/RN
L258           1 S L103 AND (311352-45-1)/RN
L259           1 S L103 AND (232591-14-9)/RN
L260           1 S L103 AND (200662-23-3)/RN
L261           1 S L103 AND (196222-98-7)/RN
L262           1 S L103 AND (196222-99-8)/RN
L263           1 S L103 AND (184307-68-4)/RN
L264           1 S L103 AND (183511-48-0)/RN
L265           1 S L103 AND (157753-90-7)/RN
L266           1 S L103 AND (81180-65-6)/RN
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L267          1 S L103 AND (81181-10-4)/RN
L268          1 S L102 AND (364319-10-8)/RN
L269          1 S L102 AND (264872-90-4)/RN
L270          1 S L102 AND (329748-94-9)/RN
L271          1 S L102 AND (262841-97-4)/RN
L272          1 S L102 AND (214356-36-2)/RN
L273          1 S L102 AND (233265-00-4)/RN
L274          1 S L102 AND (233748-88-4)/RN
L275          1 S L101 AND (162715-54-0)/RN
L276          1 S L101 AND (179005-83-5)/RN
L277          1 S L101 AND (169368-95-0)/RN
L278          1 S L101 AND (169371-84-0)/RN
L279          1 S L101 AND (162715-54-0)/RN
L280          1 S L101 AND (125199-78-2)/RN
L281          1 S L101 AND (111590-22-8)/RN
L282          1 S L101 AND (111365-20-9)/RN
L283          1 S L101 AND (111365-21-0)/RN
L284          1 S L101 AND (111365-22-1)/RN
L285          1 S L101 AND (111365-23-2)/RN
L286          1 S L101 AND (111365-24-3)/RN
L287          1 S L101 AND (111365-25-4)/RN
L288          1 S L101 AND (105287-08-9)/RN
L289          1 S L100 AND (148734-43-4)/RN
L290          1 S L100 AND (372991-26-9)/RN
L291          1 S L100 AND (361218-49-7)/RN
L292          1 S L100 AND (352595-45-0)/RN
L293          1 S L100 AND (338475-76-6)/RN
L294          1 S L100 AND (249626-72-0)/RN
L295          1 S L100 AND (241465-09-8)/RN
L296          1 S L100 AND (225933-74-4)/RN
L297          1 S L100 AND (186912-46-9)/RN
L298          1 S L100 AND (186912-44-7)/RN
L299          1 S L100 AND (186768-62-7)/RN
L300          1 S L90 AND (159606-14-1)/RN
L301          1 S L90 AND (149408-06-0)/RN
L302          1 S L90 AND (148998-09-8)/RN
L303          1 S L91 AND (297775-71-4)/RN
L304          1 S L91 AND (182020-51-5)/RN
L305          1 S L91 AND (352596-13-5)/RN
L306          1 S L91 AND (214411-82-2)/RN
L307          1 S L91 AND (200761-69-9)/RN
L308          1 S L87 AND (296811-97-7)/RN
L309          1 S L87 AND (250305-72-7)/RN
L310          1 S L87 AND (218909-54-7)/RN
L311          1 S L87 AND (200733-83-1)/RN
L312          1 S L87 AND (193843-80-0)/RN
L313          1 S L87 AND (144197-91-1)/RN
L314          1 S L87 AND (125008-23-3)/RN
L315          1 S L85 AND (362534-39-2)/RN
L316          1 S L85 AND (358804-92-9)/RN
L317          1 S L85 AND (233670-63-8)/RN
L318          1 S L85 AND (286448-55-3)/RN
L319          1 S L85 AND (90015-43-3)/RN
L320          1 S L85 AND (90015-44-4)/RN
L321          1 S L85 AND (189049-70-5)/RN
L322          1 S L85 AND (370146-81-9)/RN
L323          1 S L85 AND (370146-86-4)/RN
L324          1 S L85 AND (370146-81-9)/RN
L325          1 S L85 AND (370146-86-4)/RN
L326          1 S L85 AND (263393-22-2)/RN
L327          1 S L85 AND (252723-73-2)/RN
L328       4928 S L84
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L329            1 S L84 AND (366849-73-2)/RN
L330            1 S L84 AND (289730-84-3)/RN
L331            1 S L84 AND (365633-11-0)/RN
L332            1 S L84 AND (429713-94-0)/RN
L333            1 S L84 AND (298200-01-8)/RN
L334            1 S L84 AND (165689-06-5)/RN
L335            1 S L81 AND (558486-84-3)/RN
L336            1 S L81 AND (105844-37-9)/RN
L337            1 S L81 AND (429866-74-0)/RN
L338            1 S L81 AND (368921-32-8)/RN
L339            1 S L81 AND (209000-39-5)/RN
L340            1 S L80 AND (198653-67-7)/RN
L341            1 S L80 AND (203592-54-5)/RN
L342            1 S L80 AND (198653-66-6)/RN
L343            1 S L80 AND (198653-67-7)/RN
L344            1 S L80 AND (183907-55-3)/RN
L345            1 S L78 AND (375818-74-9)/RN
L346            1 S L78 AND (403822-00-4)/RN
L347            1 S L78 AND (403822-01-5)/RN
L348            1 S L78 AND (375818-74-9)/RN
L349            1 S L78 AND (222846-07-3)/RN
L350            1 S L78 AND (163832-48-2)/RN
L351            1 S L78 AND (163832-50-6)/RN
L352            1 S L78 AND (163796-59-6)/RN
L353            1 S L78 AND (134090-09-8)/RN
L354            1 S L106 AND (187593-07-3)/RN
L355            1 S L106 AND (119401-84-2)/RN
L356            1 S L106 AND (187593-07-3)/RN
L357            1 S L106 AND (119401-84-2)/RN
L358            1 S L106 AND (119401-84-2)/RN
L359            1 S L106 AND (223456-60-8)/RN
L360            1 S L106 AND (188628-44-6)/RN
L361            1 S L106 AND (160406-90-6)/RN

     FILE 'CAPLUS' ENTERED AT 21:03:59 ON 29 APR 2004
L362            1 S L193 AND MCCOMBIE?/AU

     FILE 'REGISTRY' ENTERED AT 21:05:10 ON 29 APR 2004
L363            1 S L93 AND (254872-01-0)/RN
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        (FILE 'HOME' ENTERED AT 21:18:04 ON 29 APR 2004)

        FILE 'MEDLINE, BIOSIS, SCISEARCH, CANCERLIT, LIFESCI, BIOTECHDS, CAPLUS'
        ENTERED AT 21:20:51 ON 29 APR 2004
L1         2534 S PREISLER?/AU
L2       794286 S (LEUKEMI## OR LEUKAEMI##)
L3         1364 S L1 AND L2
L4        18259 S DIFFERENTIAT?(3A)L2
L5           84 S L1 AND L4
L6           83 S L5 AND PY<2003
L7           33 DUP REM L6 (50 DUPLICATES REMOVED)
L8           60 S (PEPTIDE# OR POLYPEPTIDE# OR OLIGOPEPTIDE#)(3A)L4
L9           57 S L8 AND PY<2003
L10          28 DUP REM L9 (29 DUPLICATES REMOVED)

=> log y
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ACCESSION NUMBER: 1987-04261 BIOTECHDS
TITLE: New polypeptide BUF-3 obtained by culturing human leukemia
                        cells;
                            differentiation-inducer for maturing leukemia cells into
                            normal cells and accelerating erythroblast formation
PATENT ASSIGNEE: Ajinomoto
PATENT INFO: EP 210461 **4 Feb 1987**
APPLICATION INFO: EP 1986-109029 2 Jul 1986
PRIORITY INFO: JP 1985-284563 18 Dec 1985; JP 1985-146315 3 Jul 1985
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: WPI: 1987-030717 [05]
AN   1987-04261 BIOTECHDS

AB   New polypeptide BUF-3 capable of differentiating and maturing mouse
      leukemia cells into normal cells is obtained by culturing human leukemia
      cells in the presence of a differentiation inducing substance e.g.
      actinomycin D, mitomycin C, concanavalin A or a phorbol ester. Suitable
      cell lines include human histiocytic lymphoma cells (U-937 ATCC CRL
      1593), human chronic myeloid leukemia cells (K562), human mononuclear
      leukemia cells (J-III) and human acute mononuclear leukemia cells
      (THP-1). A suitable culture medium is RPMI-1640. The cells are cultured
      at 35-38 deg under 4-6% CO_2 at a cell density of 1-5 million cells/min.
      The **polypeptide** is capable of **differentiating** and
      maturing human **leukemia** cells into normal cells (benign
      alteration) and of accelerating the formation of erythroblasts. The
      polypeptide can be used for the treatment of anemia and is effective in
      preventing and curing anemia caused by Friend leukemia. It can be used
      for the relief of anemia due to a deficiency of erythrocytes and
      hemoglobin caused by malignant tumors. It has no toxicity against human
      cells. (12pp)

ACCESSION NUMBER: 88270365   MEDLINE
DOCUMENT NUMBER: PubMed ID: 3164645
TITLE: Purification of a low molecular weight factor that induces
                    differentiation and inhibits growth in myeloid leukemia
                    cells.
AUTHOR: Nakaya K; Kumakawa N; Iinuma H; Nakamura Y
CORPORATE SOURCE: School of Pharmaceutical Sciences, Showa University, Tokyo,
                    Japan.
SOURCE: Cancer research, **(1988 Aug 1)** 48 (15) 4201-5.
                    Journal code: 2984705R. ISSN: 0008-5472.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198808
ENTRY DATE: Entered STN: 19900308
                    Last Updated on STN: 19970203
                    Entered Medline: 19880824

AB   A procedure is described for purifying a low molecular weight
     peptide that induces **differentiation** in mouse myeloid
     leukemia M1 cells. The factor comes from the conditioned medium
     of macrophage-like cells differentiated from mouse myeloid leukemia M1
     cells. The procedure for purification includes gel filtration on Sephadex
     G-15, anionic exchange chromatography, thin-layer chromatography,
     reverse-phase high-performance liquid chromatography on a C18 hydrophobic
     support, and high-performance liquid chromatography gel filtration. The
     molecular weight of the factor estimated from the amino acid composition
     was approximately 1280, which agrees well with that obtained by
     high-performance liquid chromatography gel filtration. The half-maximal
     concentration of the purified factor for inducing differentiation of M1
     cells was approximately 3.2×10^{-7} M as judged by nitroblue tetrazolium
     staining ability. The purified factor also inhibits the growth of human
     leukemia HL-60 cells.